



















**Risk assessment for : Malc Firth Landscapes Limited**





























<b>Risk assessment name</b>	Laying Tarmac	<b>Assessment type</b>	 General
<b>Assessor name</b>	Peter Swain	<b>Affected site(s)</b>	Malc Firth Landscapes Limited (PE20 2HY)
<b>Assessment date</b>	02/10/23	<b>Review period</b>	Annually
<b>Approved by</b>	Peter Swain	<b>Review date</b>	02/10/24
<b>Approved date</b>	02/10/23	<b>Reference</b>	










Workspace(s)	Description
 Access / Egress  Outside Area  Processing	This risk assessment is an example only and must be adapted to suit your own business practices and working environment.















Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p>Adverse Weather Risk of injury due to lightning strikes, high winds/heavy rain, snow and ice.</p>	All staff, Members of the public  How? Adverse weather will increase the risk of other hazards occurring (i.e. slips, trips and falls) leading to sprains, strains and other serious injuries.	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <p><b>Warm Clothing Provided</b> Warm clothing is to be provided to employees in cold weather conditions to increase circulation</p> </div> <div style="width: 45%;">  <p><b>Weather Conditions Checked &amp; Planned For</b> Weather conditions are considered, planned for and suitable clothing and equipment are provided.</p> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 45%;">  <p><b>Work Is Postponed In Adverse Weather Conditions</b> Work shall be postponed if weather conditions endanger health or safety</p> </div> </div>	<p>1 x 8</p>  <p>8</p> <p>Low</p>













Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p>Buried Services (Electrical/Gas/Water) Risk of injury due to contact/drilling into buried services</p>	<p>All staff, Members of the public, Operators</p> <p>How? Contact or damage to buried services can lead to electric shock, electrocution, electrical arcing, release of gas or release of water under pressure</p>	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;">  <p><b>Area Is Scanned for Live Cables &amp; Buried Services</b> Competent staff will carry out cable avoidance tool (CAT) scans on the area to be excavated and mark out any services with biodegradable paint; wooden pegs will be used on grassed areas</p> </div> <div style="width: 48%;">  <p><b>Competent and Trained Operatives</b> All relevant employees have been trained in safe digging practices. Training recorded and refreshed periodically.</p> </div> </div> <div style="margin-top: 10px;">  <p><b>Emergency Plan/Procedures Are In Place</b> An emergency plan to deal with unintentional service strikes will be put in place for each site which is communicated to employees who have been trained</p> </div> <div style="margin-top: 10px;">  <p><b>Information obtained about underground services</b> Checks are carried out with all public and private utility companies operating in the area of work. Check with landowners and examine all available drawings and site plans do not consider site plans to be completely accurate they should serve as a guide only as services may have been moved</p> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 48%;">  <p><b>No Naked Flames In This Area</b> No naked flames in this area due to the high risk of fire and/or explosion</p> </div> <div style="width: 48%;">  <p><b>No Smoking In The Area</b> No smoking area due to hazards and risks within. Enforced with signage, disciplinary procedures etc.</p> </div> </div> <div style="margin-top: 10px;">  <p><b>Trial holes</b> Trial holes will be hand dug around areas suspected of containing live services to determine the exact location and depth of services; holes will be dug by competent staff using spades and shovels. Picks and mechanical excavators will not be used within 0.5m of live services</p> </div>	<p>1 x 8</p>  <p>8</p> <p>Low</p>














Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p>Delivery/Removal of Materials to Site Risk of injury due to delivery vehicle movement on site/premises.</p>	<p>All staff, Members of the public</p> <p>How? Movement of delivery vehicles can collide or crush pedestrians, objects or with other structures and cause harm or damage.</p>	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  <p><b>Access equipment used for the top of the vehicle</b> Suitable equipment is used to access the top of the vehicle.</p> </div> <div style="width: 50%;">  <p><b>Barriers In Place To Prevent Unauthorised Access</b> Barriers In Place To Prevent Unauthorised Access</p> </div> <div style="width: 50%;">  <p><b>Driving Risk Assessment - Vehicle Considerations</b> Correct vehicle type, kept roadworthy c/w regular checks as to condition</p> </div> <div style="width: 50%;">  <p><b>Only Competent/Licensed Drivers Drive The Vehicles</b> Only licensed personnel with sufficient information, instruction &amp; training can drive the vehicles.</p> </div> <div style="width: 50%;">  <p><b>Segregated Vehicle &amp; Pedestrian Routes</b> Pedestrian and vehicle routes are marked and physically separated where possible</p> </div> <div style="width: 50%;">  <p><b>Trained Banksman Used For Reversing Vehicles</b> Trained Banksman are used c/w the appropriate signals when vehicles are reversing to aid drivers</p> </div> <div style="width: 50%;">  <p><b>Vehicle Fitted With Reversing Lights &amp; Sounders</b> Vehicle fitted with revering lights &amp; sounders to alert those in the vicinity of reversing vehicles</p> </div> <div style="width: 50%;">  <p><b>Vehicle Pre-user Checklist &amp; Defect Reporting</b> Vehicle is checked prior to use and any defects are reported &amp; remedial actions arranged</p> </div> <div style="width: 50%;">  <p><b>Vehicle Speed Restrictions In Force</b> Enforced limits on speed applicable whilst on site.</p> </div> </div>	<p>1 x 7</p>  <p style="font-size: 2em; color: green;">7</p> <p>Low</p>

Hazard	Who could be harmed and how?	Existing controls		Risk rating (L x S)
 <p>Equipment (Refueling Activities) Risks of ill health/injury/fire during Equipment refueling activities.</p>	<p>All staff, Members of the public</p> <p>How? Fuels such as petrol and diesel are highly flammable and if ignited can cause fire and explosion which could lead to persons becoming burnt or harmed through inhalation of smoke or toxic gases</p>	<p> <b>All vehicles carry fire extinguishers</b> All vehicles carry fire extinguishers</p> <p> <b>Employees trained in Chemicals/CoSHH procedures</b> Employees have been trained in how to use the chemicals and the safe system of work</p> <p> <b>Fire Training Carried Out</b> Fire training (including evacuation) carried out at Induction and refreshed periodically</p> <p> <b>Funnel and Drip Tray Used When Refueling</b> Funnel and Drip Tray Used When Refueling to prevent fuel from being spilt onto the ground and going into the environment.</p> <p> <b>No Smoking In The Area</b> No smoking area due to hazards and risks within. Enforced with signage, disciplinary procedures etc.</p> <p> <b>Secure Storage Areas</b> Storage areas are suitably secure with authorised access only</p> <p> <b>Spillages Cleaned Up Immediately</b> Spillages Cleaned Up Immediately</p>	<p> <b>Chemical/CoSHH assessments communicated</b> CoSHH assessments have been communicated to relevant employees</p> <p> <b>Fire Fighting Equipment training is provided.</b> Fire Fighting Equipment training is provided to Fire Marshalls</p> <p> <b>Fuel Containers Suitable and Labelled</b> Containers or vessels used to store fuel must be suitable and need to be labelled to identify the substance stored within them.</p> <p> <b>Minimum Quantities Of Fuel Stored</b> Minimum quantities of fuel stored in well ventilated areas</p> <p> <b>PPE Issued, Worn &amp; Kept In Good Condition</b> PPE Issued, Worn &amp; Kept In Good Condition</p> <p> <b>Spillage Procedure In Place</b> Spillage procedure in place</p>	<p>1 x 7</p> <p> <b>7</b></p> <p>Low</p>












Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p>Hand Arm Vibration Excessive exposure to vibrating tools may cause health issues such as Hand Arm Vibration Syndrome</p>	<p>Operators</p> <p>How? Use of pedestrian vibratory roller can lead to excessive vibration or the hands and upper limbs which could eventually lead to the development of permanent health conditions e.g. vibration white finger and hand arm vibration</p>	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  <p><b>Gloves Provided and Worn to Increase Circulation</b> Gloves to be provided and worn which increase the circulation of blood to and around the hand and reduce the likelihood of the onset of hand arm vibration related illnesses.</p> </div> <div style="width: 50%;">  <p><b>Hand Arm Vibration Dosage Check On Tooling</b> Hand Arm Vibration dosage check on all vibrating tools to establish safe working time periods</p> </div> <div style="width: 50%;">  <p><b>Hand Arm Vibration Training Given</b> Information, instruction and training is given to employees using vibrating tools in the workplace.</p> </div> <div style="width: 50%;">  <p><b>Health Surveillance/Screening Records Kept</b> Records of all health surveillance/screening programmes are kept</p> </div> <div style="width: 50%;">  <p><b>Job Rotation In The Event Of High Vibration Dosage</b> Formal procedure implemented to enforce team work to ensure vibration dosage is not exceeded.</p> </div> <div style="width: 50%;">  <p><b>Selection and use of low vibration tools</b> Company policy is to select and procure low vibration dosage tools wherever it is possible to do so.</p> </div> <div style="width: 50%;">  <p><b>Self-Check For Hand Arm Vibration Syndrome</b> Operatives self-check for Hand Arm Vibration Syndrome and report accordingly. Where issues are identified, employee to seek further medical attention and occupational health support.</p> </div> </div>	<p>1 x 7</p>  <p style="font-size: 2em; color: green;">7</p> <p>Low</p>










Hazard	Who could be harmed and how?	Existing controls		Risk rating (L x S)
 <p><b>Hazardous Fumes</b> Risk of ill health (Asthma, Lung Cancer etc) by the inhalation of fumes that are hazardous to health</p>	<p>All staff</p> <p>How? Risk of ill health (Asthma, Lung Cancer etc) by the inhalation of fumes that are hazardous to health</p>	<p> <b>Chemical/CoSHH assessments communicated</b> CoSHH assessments have been communicated to relevant employees</p> <p> <b>Natural Ventilation Provided For The Task</b> Natural Ventilation Provided For The Task</p>	<p> <b>Employees trained in Chemicals/CoSHH procedures</b> Employees have been trained in how to use the chemicals and the safe system of work</p>	<p>1 x 1</p> <p style="color: green; font-size: 2em; text-align: center;">1</p> <p>Low</p>
 <p><b>Manual handling</b> Risk of injury whilst undertaking the manual handing of tall, awkward &amp; unwieldy loads.</p>	<p>Operators</p> <p>How? Lifting and moving or construction materials e.g. tarmac. Use of hand tools and equipment. Removal of waste materials.</p>	<p> <b>Avoid Any Unnecessary Manual Handling</b> Unnecessary manual handling activities are avoided by the use of lifting equipment.</p> <p> <b>Job Rotation</b> Formal procedure implemented to enforce team work to reduce the likelihood of musculoskeletal injury's occurring.</p> <p> <b>Manual Handling Lifting Aids Used</b> Lifting aids are to be used to reduce the frequency and quantity of manual handling e.g. wheelbarrow</p> <p> <b>Manual Handling Training Given</b> All relevant employees have received training on correct manual handling techniques</p> <p> <b>Regular Breaks Taken</b> Regular Breaks Taken</p>	<p> <b>Good Manual Handling Techniques/Postures Used</b> All staff are provided training on safe lifting techniques and recommended postures</p> <p> <b>Manual Handling - Team Lifting</b> Team lifting will be applied as required</p> <p> <b>Manual Handling Risk Assessment Carried Out</b> An assessment of the manual handling risk has been carried out for the task.</p> <p> <b>Protective Footwear Worn Whilst Manual Handling</b> Suitable protective footwear is worn whilst carrying out manual handling activity.</p>	<p>1 x 7</p> <p style="color: green; font-size: 2em; text-align: center;">7</p> <p>Low</p>

Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p>Moving Machinery (Crush/Entrapment/Nipping) Risk of injury due to contact with dangerous/moving parts of machinery</p>	<p>All staff, Operators</p> <p>How? Body or clothing contact with machinery on-site such as compactor could cause crush, drawing in and entanglement injury's leading to broken bones, fractures, cuts and bruises etc.</p>	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  <p><b>Appropriate First Aid Provided</b> Casualties treated by first aider until emergency help arrives</p> </div> <div style="width: 50%;">  <p><b>Employees Trained in Use of Equipment</b> Employees Trained in the Use of Equipment. Trained is recorded and refreshed periodically.</p> </div> <div style="width: 50%;">  <p><b>Entanglement Avoidance Rules In Place</b> All loose clothing, jewellery (watches / rings / necklaces) is removed &amp; long hair is tied back</p> </div> <div style="width: 50%;">  <p><b>Equipment Fitted With Lights &amp; Sounders, Where Required</b> Equipment Fitted With Lights &amp; Sounders, Where Required to alert those in the vicinity of reversing vehicles</p> </div> <div style="width: 50%;">  <p><b>Equipment Pre-user Checklist &amp; Defect Reporting</b> Equipment is checked prior to use and any defects are reported &amp; remedial actions arranged. Where equipment is defective, it is not used and taken out of service.</p> </div> <div style="width: 50%;">  <p><b>Fixed Guards in Place At All Times</b> Fixed guards in place at all times &amp; regularly checked</p> </div> <div style="width: 50%;">  <p><b>Only Competent Persons Can Operate The Equipment</b> Only personnel with sufficient information, instruction and training can operate the equipment.</p> </div> <div style="width: 50%;">  <p><b>PPE Issued, Worn &amp; Kept In Good Condition</b> PPE Issued, Worn &amp; Kept In Good Condition</p> </div> <div style="width: 50%;">  <p><b>Routine Maintenance and Servicing Undertaken</b> Routine maintenance and Servicing is undertaken in accordance with the manufacturer's requirements</p> </div> <div style="width: 50%;">  <p><b>Supervision Provided</b> Inexperienced persons are supervised when using moving machinery by a competent and trained person.</p> </div> </div>	<p>1 x 8</p>  <p>8</p> <p>Low</p>

Hazard	Who could be harmed and how?	Existing controls		Risk rating (L x S)
 <p>Noise Risk of hearing damage due to exposure to excessive levels of noise.</p>	<p>All staff, Members of the public</p> <p>How? Exposure to excessive noise levels can result in: Hearing loss, Interference with speech, Interference with concentration and thought processes, Disturb sleep, Lead to fatigue and aggression</p>	 <p><b>Health Surveillance/Screening Records Kept</b> Records of all health surveillance/screening programmes are kept</p>  <p><b>Hearing/Audiometric Tests Conducted</b> Audiometric hearing tests carried out for employees exposed regularly to noise levels 85dB(A) &amp; over</p>	 <p><b>Hearing protection provided &amp; worn</b> Hearing protection available and to be worn whilst carrying out noisy work activities</p>  <p><b>Noise Risk Assessment Carried Out</b> Noise risk assessment carried out c/w regular measurements to ensure it is kept valid and up to date</p>	<p>1 x 8</p>  <p>8</p> <p>Low</p>
 <p>People Movement (Risk of Slips, Trips and Falls) Risk of injury due to a variety of access/egress hazards that can cause slips, Trips and Falls.</p>	<p>All staff, Members of the public</p> <p>How? The use of inadequate or inappropriate footwear. Materials or tools left in walkways. Changes in height of ground level. Inadequate awareness of surroundings and pathway.</p>	 <p><b>All Staff Trained In Good Housekeeping Techniques</b> All staff are trained in good housekeeping techniques &amp; the standards expected in the workplace</p>  <p><b>Suitable Non-Slip Footwear Provided and Worn</b> Foot protection supplied &amp; worn to BS EN 20345 relevant to the work activity hazard. Footwear to be non-slip so to reduce slip, trip and fall accidents.</p>  <p><b>Tools Not Left In Walkways</b> Hand tools and equipment is not left in walkways and is stored appropriately after use.</p>	 <p><b>Good Housekeeping Observed During The Task</b> Good housekeeping standards observed &amp; maintained by operatives throughout the duration of the task</p>  <p><b>Supervision and Site Inspections Conducted</b> Periodic site inspections to be carried out by appropriate employee. Any identified deficiencies to be recorded and remedied on-site where possible.</p>	<p>1 x 7</p>  <p>7</p> <p>Low</p>



Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p>Tarmac Product Risk of dermatitis due to the handling of substances that may irritate the skin if not protected. Substance may cause burns.</p>	<p>Operators</p> <p>How? Contact with asphalt / tarmac may cause chemical burns to the skin. Contact with asphalt / tarmac can lead to the development of permanent skin conditions such as dermatitis. Substance may splash or be rubbed into eyes.</p>	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  <p><b>Barrier Creams Used To Protect The Skin</b> Barrier creams are used whilst working to protect against dermatitis and other skin conditions</p> </div> <div style="width: 50%;">  <p><b>Chemical/CoSHH assessments communicated</b> CoSHH assessments have been communicated to relevant employees</p> </div> <div style="width: 50%;">  <p><b>Employees trained in Chemicals/CoSHH procedures</b> Employees have been trained in how to use the chemicals and the safe system of work</p> </div> <div style="width: 50%;">  <p><b>Eye Protection Worn</b> Eye protection supplied to BS EN 166 &amp; relevant to the work activity hazard</p> </div> <div style="width: 50%;">  <p><b>Eye Wash Station Provided</b> Eye wash station provided for first aid treatment for debris/dust etc. in eyes.</p> </div> <div style="width: 50%;">  <p><b>Gloves Worn - EN 374-3 Chemical Risks (Simple)</b> Gloves Worn - EN 374-3 Chemical Risks (Simple)</p> </div> <div style="width: 50%;">  <p><b>Good Hand Washing/Hygiene Procedures Observed</b> Good hand washing procedures observed to reduce the risk of skin disorders and promote good hygiene</p> </div> <div style="width: 50%;">  <p><b>Health Surveillance</b> Employees hands and skin are checked periodically for damage or deterioration. Where deterioration of skin is found, employee to seek further medical attention and occupational health. Records of all health surveillance/screening programmes are kept</p> </div> <div style="width: 50%;">  <p><b>Protective Clothing Must Be Worn</b> Protective long length Clothing Must Be Worn and washed regularly</p> </div> </div>	<p>1 x 7</p>  <p>7</p> <p>Low</p>

Hazard	Who could be harmed and how?	Existing controls		Risk rating (L x S)
 <p>Vehicle Movement Risk of injury through coming into contact with vehicles and plant moving around the area.</p>	<p>All staff, Members of the public</p> <p>How? Traffic could collide and potentially crush persons working or walking next to tarmac laying works which are being conducted on or next to a road</p>	<p> <b>Barriers In Place To Prevent Unauthorised Access</b> Barriers In Place To Prevent Unauthorised Access</p> <p> <b>Pedestrian Pathway Provided For Traffic Management</b> Pedestrian pathways are provided and used as part of the Traffic Management Plan</p> <p> <b>Segregated Vehicle &amp; Pedestrian Routes</b> Pedestrian and vehicle routes are marked and physically separated where possible</p> <p> <b>Warning &amp; Information Signage Displayed</b> Relevant warning &amp; information signage displayed relative to the work activity, hazard &amp; risks</p>	<p> <b>Keys Removed From Unattended Vehicles</b> Keys are removed from unattended vehicles to prevent unauthorised use</p> <p> <b>PPE Issued, Worn &amp; Kept In Good Condition</b> PPE Issued, Worn &amp; Kept In Good Condition. To include, Hi visibility coat / jacket, gloves, protective full length clothing, safety boots and safety glasses.</p> <p> <b>Training Provided</b> All employees have received NSWRA training. Record are kept and training is refreshed periodically.</p>	<p>1 x 8</p>  <p>8</p> <p>Low</p>

### Further control measures

Assessor's signature: Peter Swain

Approved by signature: Peter Swain